

UTAH GEOLOGICAL SURVEY
UTAH DEPARTMENT OF NATURAL RESOURCES
in cooperation with
THE UNITED STATES GEOLOGICAL SURVEY

Plate 1
Utah Geological Survey Map 144
Geologic Map of the Patterson Pass Quadrangle

Base Map from U. S. Geological Survey
Patterson Pass 7.5' Quadrangle, 1967

Geology mapped by authors
1979-81, 1986; assisted
by M. A. Pennoles, 1980
Lori J. Douglas, Cartographer

UTM GRID AND 1982 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

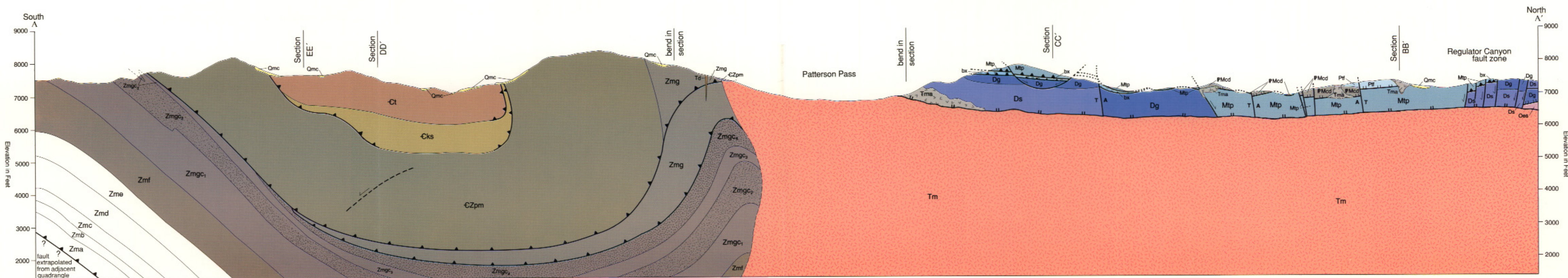
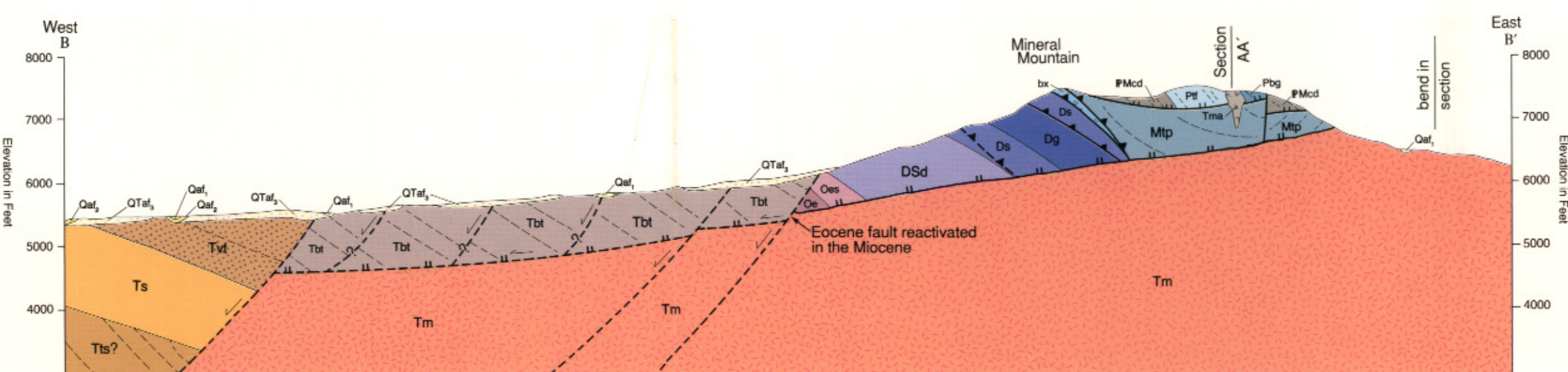
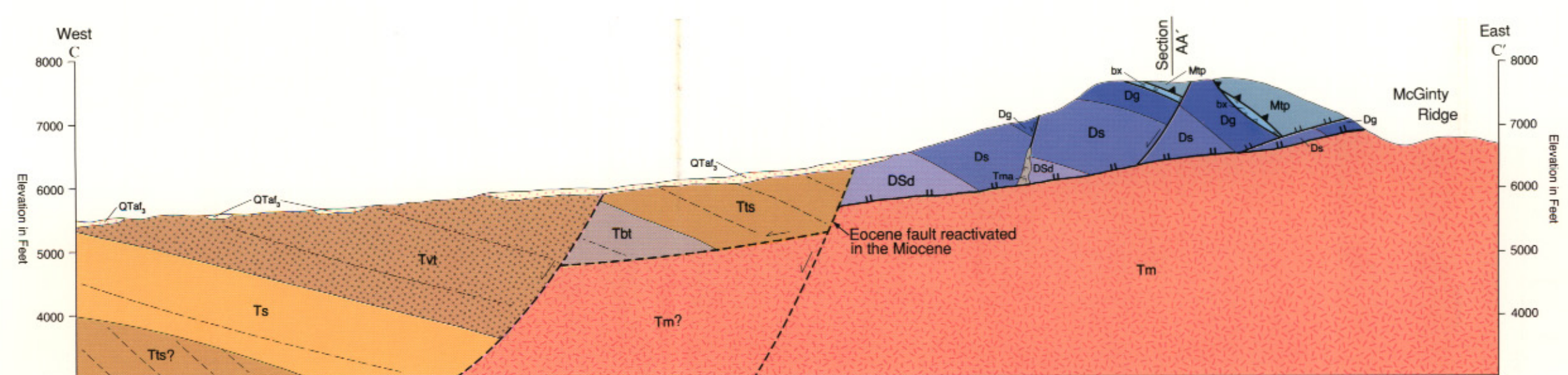
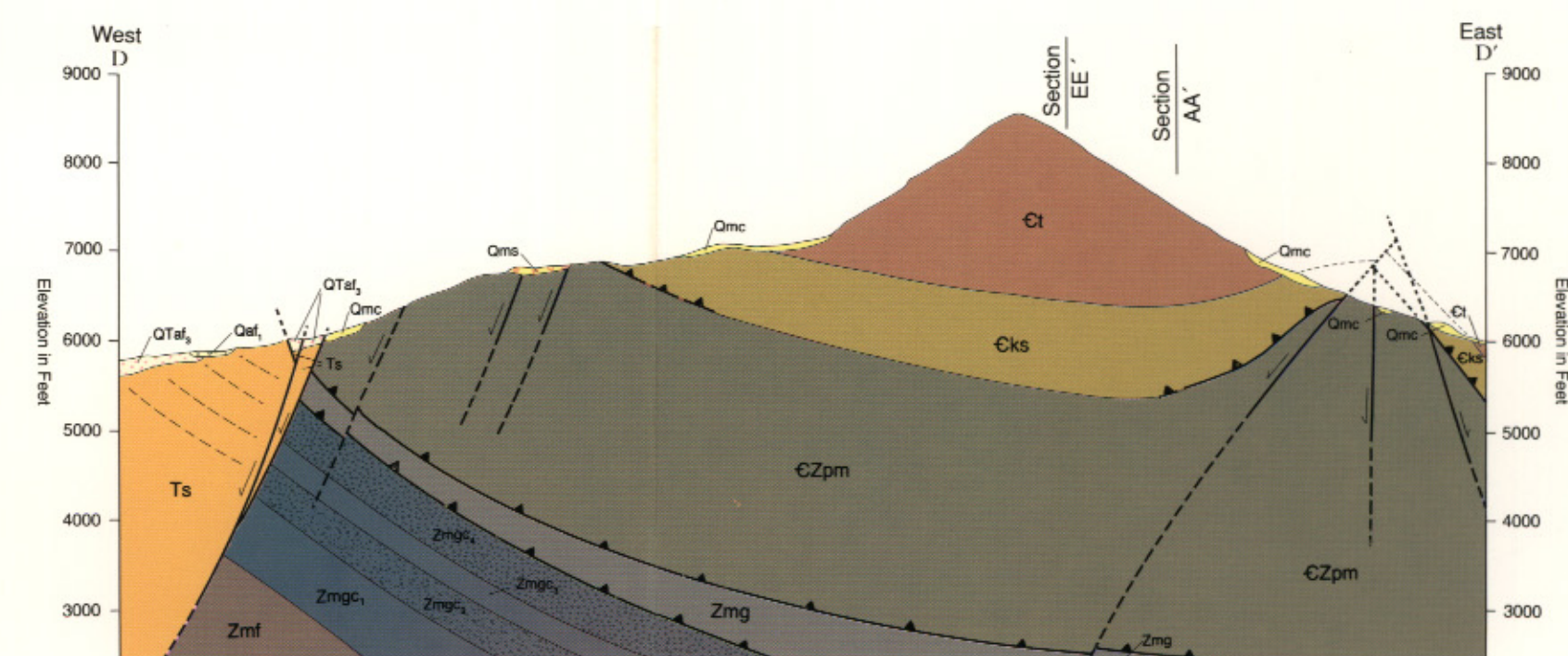
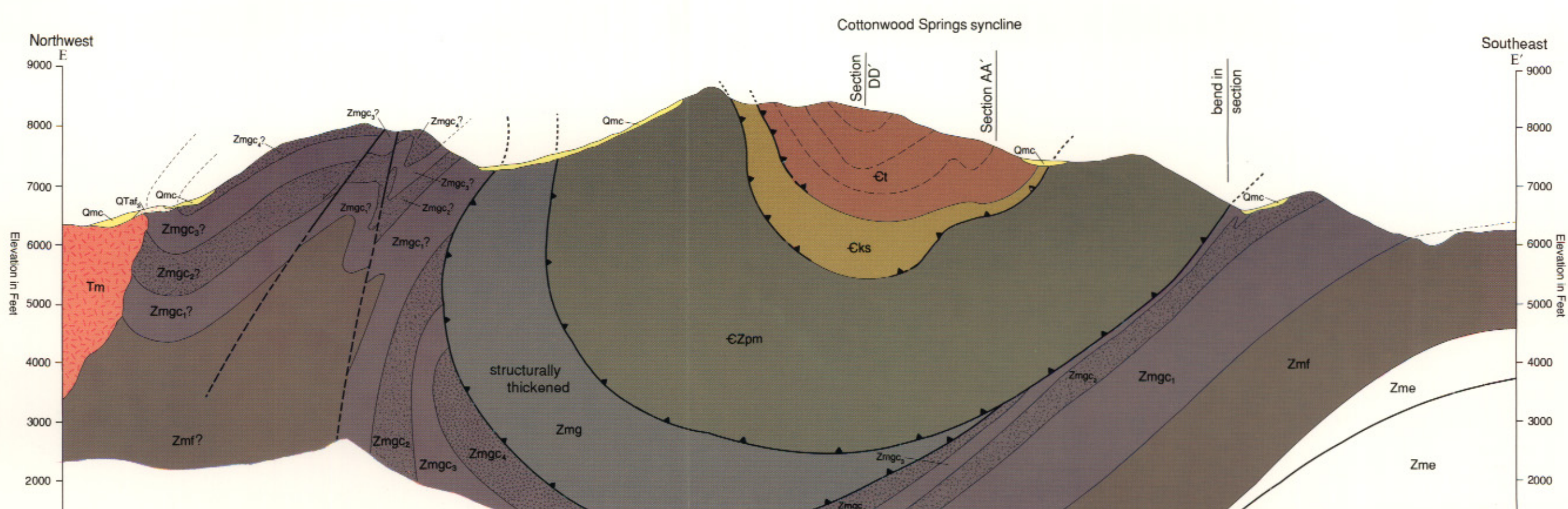
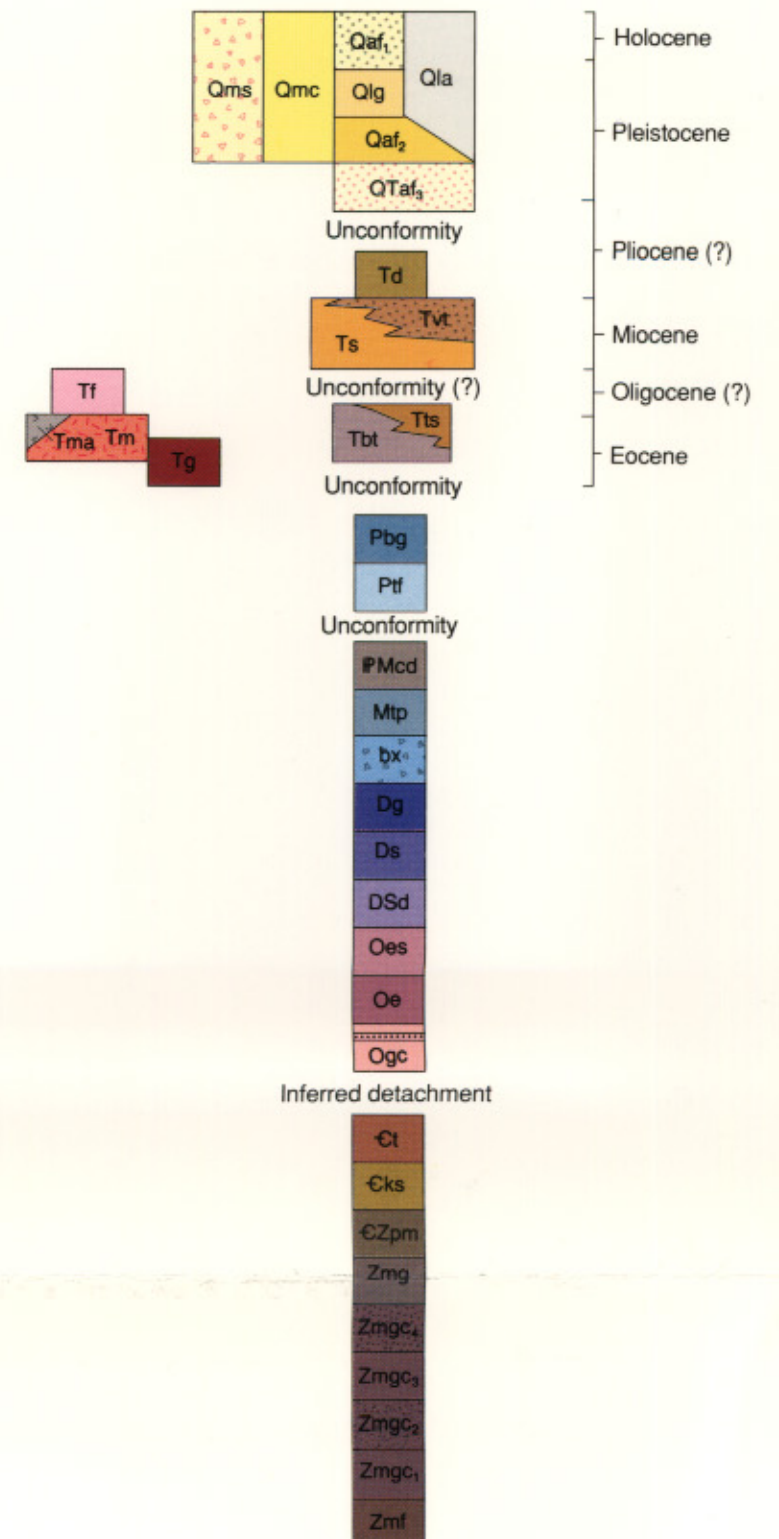
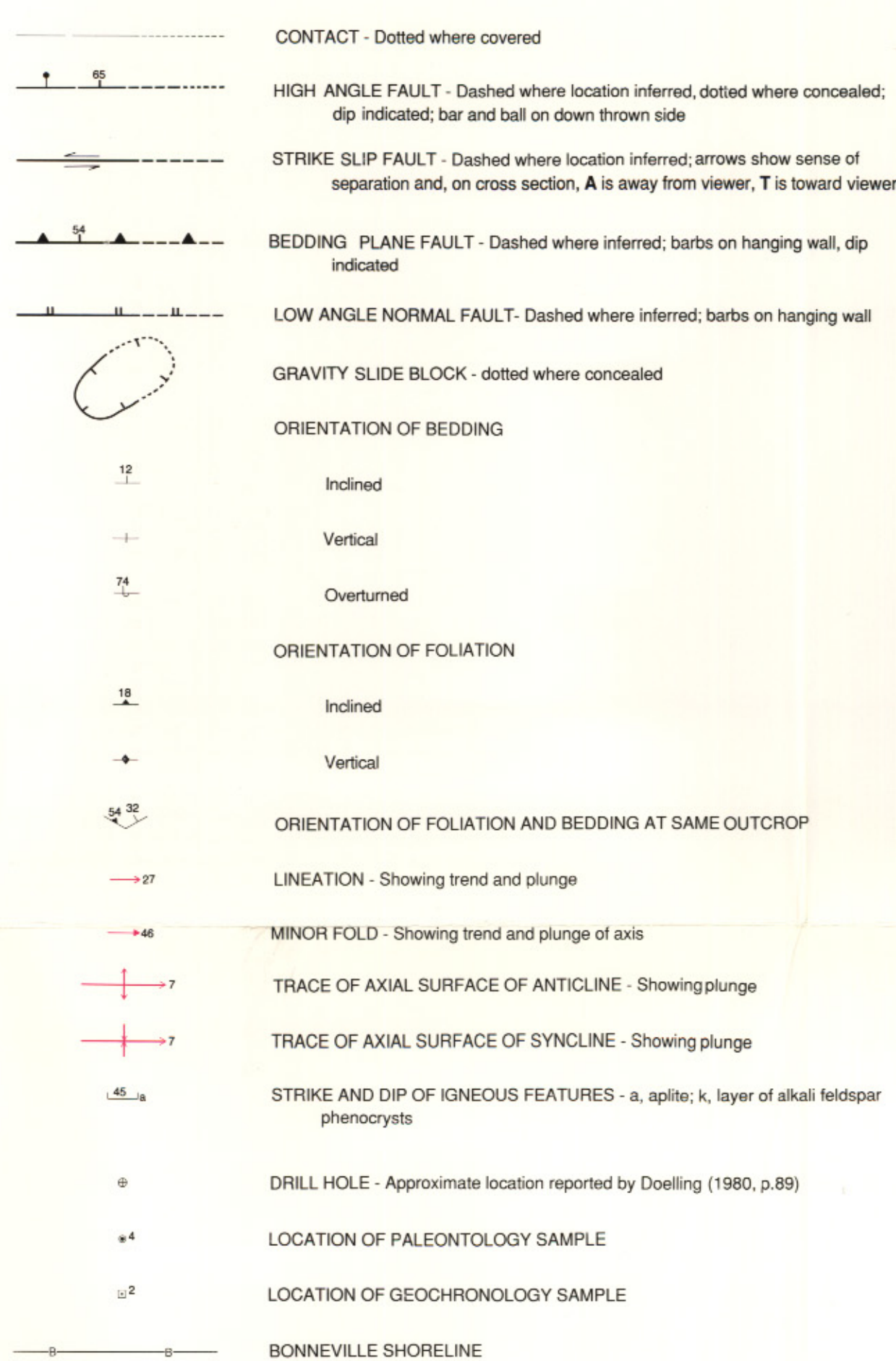
SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

GEOLOGIC MAP OF THE PATTERSON PASS
QUADRANGLE, BOX ELDER COUNTY, UTAH,
AND ELKO COUNTY, NEVADA

by
David M. Miller, Andrew P. Lush, and Joel D. Schneyer
1993

CORRELATION OF MAP UNITS



Formation	Symbol	Thickness feet (meters)	Lithology			
Vitric tuff	Tvt	2,300 (700)				
Sedimentary rocks	Ts	1,300 (400)				
Tuff and sedimentary rocks	Tts	2,300 (700)				
Biotite rhyolite tuff	Tbt	1,650 (500)				
Badger Gulch Formation	Pbg	260 (80)				
Third Fork (?) Formation	Ptf	720 (220)				
Chainman Shale and Diamond Peak	FMcd	600 (185)				
Tripon Pass Limestone	Mtp	1,400 (425)				
Silicified breccia	bx	130 (40)				
Guilmette Formation	Dg	1,280 (390)				
Simonsen Dolomite	Ds	1,200 (365)				
Thick-bedded dolomite	DSd	1,640 (500)				
Ely Springs Dolomite	Oes	380 (110)				
Eureka Quartzite	Oe	260 (80)				
Garden City Formation	Ogc	885 (270)				
Toano Limestone	Ct	1,970 (600)				
Killian Springs Formation	CKs	990 (300)				
Prospect Mountain Quartzite	CZpm	2,840 (865)				
McCoy Creek Group	Unit G	upper subunit	Zmg	1,725 (525)		
			interval 4	Zmgc ₄	65 (20)	
			interval 3	Zmgc ₃	165 (50)	
			interval 2	Zmgc ₂	475 (145)	
			interval 1	Zmgc ₁	1,310 (400)	
	Unit F		Zmf	1,400 (425)		